WM2504

802.11b/g Wireless Mini PCI Card

The **WM2504** is a mini PCI card that connects your notebook to a wireless local area notebook. Incorporating the IEEE802.11g standard's mandatory modulation schemes, the **WM2504** is backwards compatible with all the existing 802.11b products already out there. Moreover, the high-speed transfer rate of up to 54Mbps makes it an essence for today's high-bandwidth demand.

The **WM2504** is a very small card that can fit into any notebook, handheld or desktop computer equipped with a Mini PCI (Type III B slot) interface for wireless network applications. It allows you to take full advantage of your notebook's mobility with access to real-time information and online services anytime and anywhere. It slides easily into the MINI PCI expansion slot to enable a wireless connection to your network.

FEATURES

- Complies with IEEE 802.11b and 802.11g standard for 2.4GHz Wireless LAN.
- Compliant with PCI 2.3 Standard.
- Works with all existing network infrastructure.
- Complies with specific wireless products and services.
- Capable of up to 128-Bit WEP,TKIP and AES.
- Freedom to roam while staying connected.
- Up to 54 Mbps data transfer rate in 802.11g mode of operation.
- Supports Windows98/ ME/ 2000/ XP
- Lower power consumption.
- Easy to install and configure.

SPECIFICATIONS

Standard	IEEE 802.11b, IEEE 802.11g Standard
Host Interface	III-b mini PCI form factor (mini PCI interface 1.0)
Operating Voltage	3.3V (Vaux)
Power Requirement	Power consumption at 11g TX:441mA Rx:356mA Power consumption at 11b Tx:435mA Rx:355mA
Antenna Type	2 Diversity U.FL Compatible Coaxial Connector
Frequency Range	2.412GHz-2.4835GHz
Modulation	11g:Orthogonal Frequency Division Multiplexing (OFDM) 54Mbps/48Mbps:QAM-64 36Mbps/24Mbps:QAM-16 18Mbps/12Mbps:QPSK 9Mbps/6Mbps:BPSK

	11b:Direct Sequence Spread Spectrum (DSSS) 11Mbps/5.5Mbps:CCk 2Mbps:DQPSK 1Mbps:DBPSK
Number of Selectable Channels	USA, Canada (FCC): 11 channels (2.412GHz~2.462GHz) Europe (CE): 13 channels (2.412GHz~2.472GHz) Japan (TELEC): 14 channels (2.412GHz~2.4835GHz)
Modulation Technique	802.11b: Direct Sequence Spread Spectrum (PBCC, CCK, DQPSK, DBPSK) 802.11g: Orthogonal frequency division multiplexing
Data Rate	802.11b(11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps) 802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
Preamble	802.11b: Both Short and Long preamble 802.11g: Both Short and Long preamble
Security	Hardware-Based Encryption/Decryption Using 64-, 128-bit Wired-Equivalent Privacy (WEP) Keys, WPA , WPA2 , WMM and CCX are also supported.
Output Power	54Mbps OFDM: 13dBm~15dBm; 11Mbps CCK: 16dBm~18dBm (average power)
Receiver Sensitivity	802.11g (in 10% PER) -71 dBm(max.) at 54Mpbs 802.11b (in 8% PER) -85 dBm(max.) at 11Mpbs
Range	Indoors: up to 100meters; Outdoors: up to 300meters
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Physical Specifications	Weight: 10g Dimension: 59.75 (L) x 44.6(W) mm
Environment Specifications	Operating Temperature: 0~60℃ ambient temperature Storage Temperature: -20~70℃ ambient temperature Operating humidity: 90% maximum (non-condensing) Storage humidity: 90% maximum (non-condensing)
Supported OS	Windows 98 Windows ME Windows 2000 Windows XP
EMC Certification	FCC Part 15 subpart B / subpart C (15.247) in US. and ETSI EN-300328(pre-scan)